

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning at page 17, line 12, as follows:

This is realized into the electron gun shown in Figs. 14(a)-14(b). Fig. 14(a) is a perspective view and Fig. 14(b) is a plan view seen from above. With the same construction as Fig. 13, an aluminum electrode 632, a silicon layer 633, and SiO₂ layer 634, a platinum electrode 635 and a platinum electrode 636 constitute the electron gun. A cover 616 (shown in Fig. 12) for the electrode 615 and a cover for avoiding deposition 637 are formed by Si₃N₄, which prevents deposit from attaching to the electrode 615 and the platinum electrode 635.

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